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* * * * * Welcome to STN International * * * * *

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NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered
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NEWS 6 MAY 11 KOREAPAT updates resume
NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and
USPATFULL/USPAT2
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 12 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 14 JUL 14 FSTA enhanced with Japanese patents
NEWS 15 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 16 AUG 09 INSPEC enhanced with 1898-1968 archive

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:57:33 ON 11 AUG 2006

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 10:57:40 ON 11 AUG 2006

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STRUCTURE FILE UPDATES: 9 AUG 2006 HIGHEST RN 900096-56-2
DICTIONARY FILE UPDATES: 9 AUG 2006 HIGHEST RN 900096-56-2

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

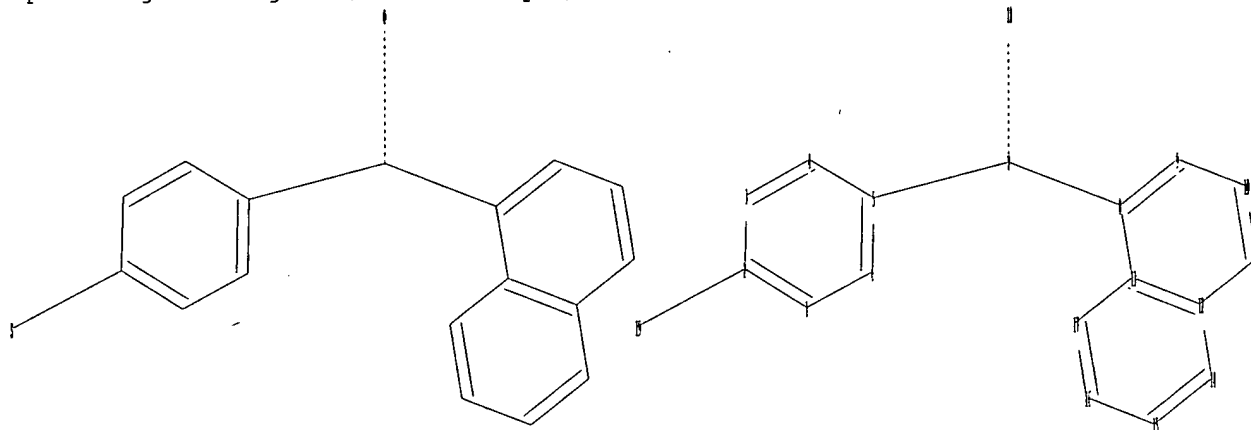
Please note that search-term pricing does apply when
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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10809845h.str



chain nodes :

7 18 19

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17

chain bonds :

2-19 5-7 7-8 7-18

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 12-14 13-17
14-15 15-16 16-17

exact/norm bonds :

2-19 7-18

exact bonds :

5-7 7-8

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 12-14 13-17
14-15 15-16 16-17

G1:O,S,N

Match level :

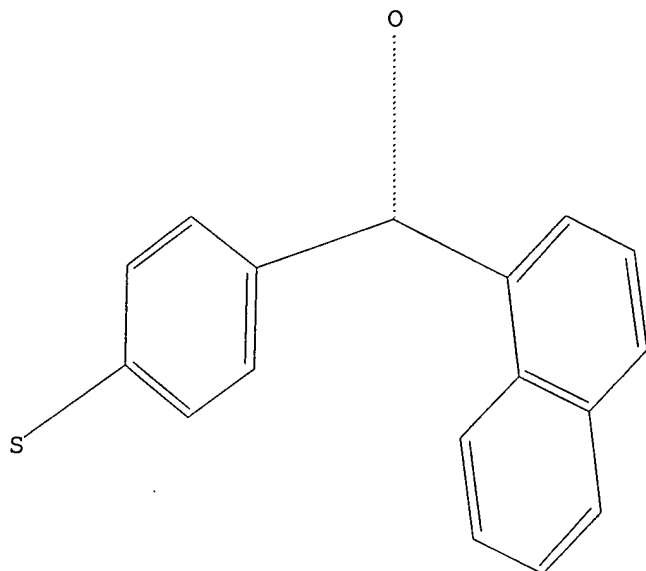
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:58:11 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 65 TO ITERATE

100.0% PROCESSED 65 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 817 TO 1783

PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 10:58:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1189 TO ITERATE

100.0% PROCESSED 1189 ITERATIONS

38 ANSWERS

SEARCH TIME: 00.00.01

L3 38 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

166.94

167.15

FILE 'CAPLUS' ENTERED AT 10:58:16 ON 11 AUG 2006
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=> s l3

L4 16 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:857549 CAPLUS

DOCUMENT NUMBER: 141:349919

TITLE: Preparation of mercapto-phenyl-naphthyl-methane

INVENTOR(S): Sanjita Kumar, Atul Singh, Man Mohan Jain, Girish Kumar; Murthy, Puvvada Sri Ramchandra; Ray, Suprabhat Council of Scientific and Industrial Research, India PCT Int. Appl., 50 pp.

CODEN: PIXOXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

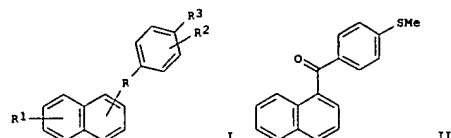
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087644	A1	20041014	WO 2003-1B6247	20031223
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, SM, SN, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,			
TG	CA 2524568	AA 20041014	CA 2003-2524568	20031223
	AU 2003288644	A1 20041025	AU 2003-288644	20031223
	CN 1802348	A 20060712	CN 2003-80110327	20031223
	US 2004229869	A1 20041118	US 2004-809845	20040326
PRIORITY APPL. INFO.:			US 2003-458401P	P 20030331
			WO 2003-1B6247	W 20031223

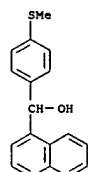
OTHER SOURCE(S): MARPAT 141:349919

G1

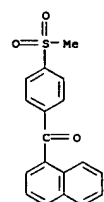


AB Title compds. I [R = CO, CH2, CHOR4, wherein R4 = H, COR5, wherein R5 = alkyl or haloalkyl; R1 and R2 independently = H, OH, alkyl, alkoxy, alkoxyalkyl; R3 = substituted mercapto], as well as their pharmaceutically acceptable salts, are prepared and disclosed as useful for the treatment of diseases or syndromes related to estrogen deficiency. Thus, e.g., II was prepd via reaction of 1-naphthoic acid with thioanisole.

L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 774235-15-3P 774235-17-5P 774235-18-6P
774235-19-7P 774235-20-0P 774235-22-2P
774235-23-3P 774235-24-4P 774235-25-5P
774235-26-6P 774235-27-7P 774235-28-8P
774235-29-9P 774235-30-2P 774235-31-3P
RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
derivs. and compns. thereof useful for treating estrogen dependent diseases or syndromes)
RN 774235-15-3 CAPLUS
CN Methanone, [4-(methylsulfonyl)phenyl]-1-naphthalenyl- (9CI) (CA INDEX NAME)



RN 774235-17-5 CAPLUS
CN 1-Naphthalenemethanol, α-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

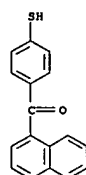
L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

Pharmaceutical compns. of I are also disclosed. I should be useful for treatment of medical indications assocd. with estrogen dependent diseases or syndromes related to osteoporosis, bone loss, bone formation, cardiovascular disorders, neurodegenerative disorders, menopausal disorders, physiol. disorders, diabetes disorders, prostatic carcinoma, cancer of breast, cancer of uterus, cancer of the cervix and cancer of the colon, threatened or habitual abortion, obesity, ovarian development or function, post-partum lactation and depression. In assays for evaluating antiosteoporosis activity, II possessed 7/C ratio or 0.4-0.8 at 25μM to 100 μM concns.

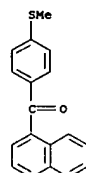
IT 183174-36-9P 774235-14-2P 774235-16-4P
RI: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of mercaptophenyl naphthyl methane

derivs. and compns. thereof useful for treating estrogen dependent diseases or syndromes)

RN 183174-36-9 CAPLUS
CN Methanone, [4-(mercaptophenyl)-1-naphthalenyl- (9CI) (CA INDEX NAME)

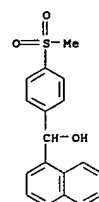


RN 774235-14-2 CAPLUS
CN Methanone, [4-(methylthio)phenyl]-1-naphthalenyl- (9CI) (CA INDEX NAME)

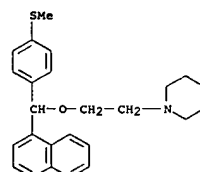


RN 774235-16-4 CAPLUS
CN 1-Naphthalenemethanol, α-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)

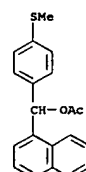
L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 774235-18-6 CAPLUS
CN Piperidine, 1-[2-[4-(methylthio)phenyl]-1-naphthalenylmethoxy]ethyl- (9CI) (CA INDEX NAME)

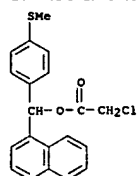


RN 774235-19-7 CAPLUS
CN 1-Naphthalenemethanol, α-[4-(methylthio)phenyl]-, acetate (9CI) (CA INDEX NAME)

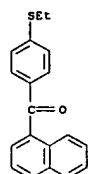


RN 774235-20-0 CAPLUS
CN Acetic acid, chloro-, [4-(methylthio)phenyl]-1-naphthalenylmethyl ester (9CI) (CA INDEX NAME)

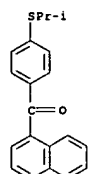
L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 774235-22-2 CAPLUS
CN Methanone, [4-(ethylthio)phenyl]-1-naphthalenyl- (9CI) (CA INDEX NAME)

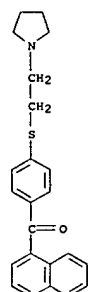


RN 774235-23-3 CAPLUS
CN Methanone, [4-[(1-methylethyl)thio]phenyl]-1-naphthalenyl- (9CI) (CA INDEX NAME)

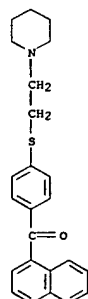


RN 774235-24-4 CAPLUS
CN Methanone, [4-[(2-(dimethylamino)ethyl)thio]phenyl]-1-naphthalenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

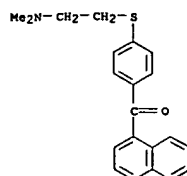


RN 774235-27-7 CAPLUS
CN Methanone, 1-naphthalenyl[4-[(2-(1-piperidinyl)ethyl)thio]phenyl]- (9CI) (CA INDEX NAME)

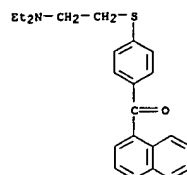


RN 774235-28-8 CAPLUS
CN Methanone, [4-(ethylsulfonyl)phenyl]-1-naphthalenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

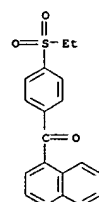


RN 774235-25-5 CAPLUS
CN Methanone, [4-[(2-(diethylamino)ethyl)thio]phenyl]-1-naphthalenyl- (9CI) (CA INDEX NAME)

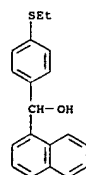


RN 774235-26-6 CAPLUS
CN Methanone, 1-naphthalenyl[4-[(2-(1-pyrrolidinyl)ethyl)thio]phenyl]- (9CI) (CA INDEX NAME)

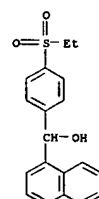
L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



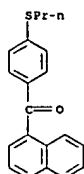
RN 774235-29-9 CAPLUS
CN 1-Naphthalenemethanol, alpha-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



RN 774235-30-2 CAPLUS
CN 1-Naphthalenemethanol, alpha-[4-(ethylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



RN 774235-31-3 CAPLUS
CN Methanone, 1-naphthalenyl[4-(propylthio)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

ACCESSION NUMBER: 2004:274210 CAPLUS
 DOCUMENT NUMBER: 140:424321
 TITLE: Properties of a few aromatic poly(thioether ketones) as sulfur-containing high-performance polymers
 AUTHOR(S): Matsumura, Sumiko; Kihara, Nobuhiro; Takata, Toshikazu
 CORPORATE SOURCE: Department of Applied Chemistry, Graduate School of Engineering, Osaka Prefecture University, Sakai, 599-8531, Japan
 SOURCE: Journal of Applied Polymer Science (2004), 92(3), 1869-1874
 CODEN: JAPNAB; ISSN: 0021-8995
 PUBLISHER: John Wiley & Sons, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Several basic phys. properties of poly(thioether ketones) (PTEKs) were studied in comparison with corresponding ether analogs, poly(ether ketones) (PEKs), and various typical engineering plastics. The water absorption of PTEK (0.13%) was lower than that of the corresponding PEK (0.16%), probably because of the hydrophobic nature of the sulfide group. The dielec. breakdown strengths of PTEK and PEK were much greater than that of com. available polymers. PTEK had higher dielec. breakdown strength than PEK. Although the volume resistivity of PEK considerably decreased after water absorption, that of PTEK remained high even after water absorption. PTEK exhibited a remarkably high refractive index (nd23 1.66). α -Transition corresponding to Tg was observed at a high temperature (PTEK-1, 235°C; PTEK-2, 269°C) in the dynamic mech. anal. Young's modulus and tensile strength of PTEK were comparable to those of com. high-performance polymers. PTEK also exhibited excellent flame resistance. Although the linear thermal expansion coefficient of PTEK was greater than that of PEEK, it was still within a practically acceptable level.
 IT 343944-21-8 343944-22-9
 RL: PRP (Properties)
 (thermal, elec., and optical properties of aromatic poly(thioether ketones) as sulfur-containing high-performance polymers)
 RN 343944-21-8 CAPLUS
 CN Poly[thio-1,4-phenylenesulfonyl-1,4-phenylenethio-1,4-phenylenecarbonyl (2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

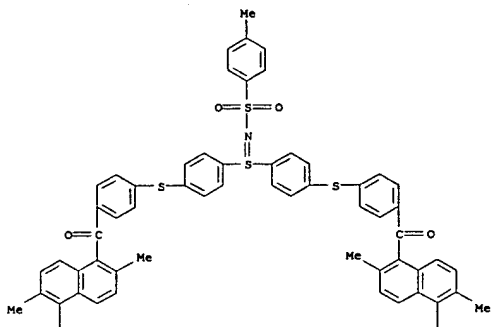
RN 343944-22-9 CAPLUS
 CN Poly[thio-1,4-phenylenethio-1,4-phenylenethio-1,4-phenylenecarbonyl (2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

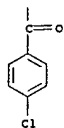
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
 REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

ACCESSION NUMBER: 2003:294462 CAPLUS
 DOCUMENT NUMBER: 139:69640
 TITLE: Synthesis, properties, and reaction of polysulfilimine
 AUTHOR(S): Matsumura, Sumiko; Kihara, Nobuhiro; Takata, Toshikazu
 CORPORATE SOURCE: Department of Applied Chemistry, Graduate School of Engineering, Osaka Prefecture University, Osaka, 599-8531, Japan
 SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (2003), 41(9), 1330-1334
 CODEN: JPACED; ISSN: 0887-624X
 PUBLISHER: John Wiley & Sons, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The preparation of a well-characterized main-chain-type polysulfilimine is reported. The starting aromatic polysulfide
 Ar-CO-C6H4-S-C6H4-S-C6H4-S-C6H4-CO-Ar (all-4,4'-substitution, Ar = 5-(4-chlorobenzoyl)-2,6-dimethyl-1-naphthyl) was reacted with chloramine-T in CHCl3/H2O system under phase-transfer conditions (Bu4NCl) yielding poly(N-tosylsulfilimine) that was detosylated to the desired polysulfilimine Ar-CO-C6H4-S-C6H4-S-C6H4-S-C6H4-S-C6H4-CO-Ar. Effects of conversion of sulfide groups into sulfilimine groups on polymer properties (in particular, glass transition temperature) are discussed.
 IT 551952-53-5P 551952-54-6P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (model compound: preparation and properties of polysulfilimine in relation to)
 RN 551952-53-5 CAPLUS
 CN Sulfilimine, 8,8-bis[4-[[4-[[[5-(4-chlorobenzoyl)-2,6-dimethyl-1-naphthalenyl]carbonyl]phenyl]thio]phenyl]-N-[(4-methylphenyl)sulfonyl]-] (9CI) (CA INDEX NAME)

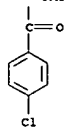
PAGE 1-A



PAGE 2-A



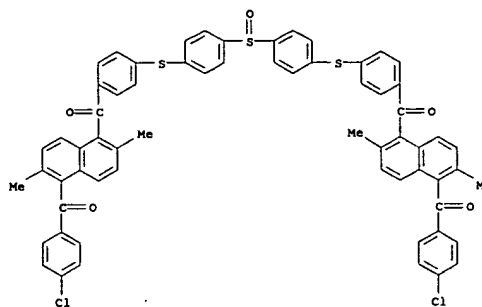
RN 551952-54-6 CAPLUS
 CN Methanone, [sulfinylbis(4,1-phenylenethio-4,1-phenylene)]bis[[5-(4-chlorobenzoyl)-2,6-dimethyl-1-naphthalenyl]- (9CI) (CA INDEX NAME)



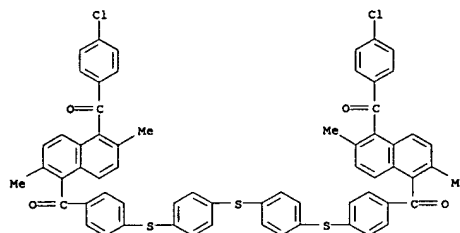
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
 REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT



IT 551952-52-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (model compound; preparation and properties of polysulfilimine in relation to)
 RN 551952-52-4 CAPLUS
 CN Methanone, [thiobis(4,1-phenylenethio-4,1-phenylene)]bis[[5-(4-chlorobenzoyl)-2,6-dimethyl-1-naphthalenyl]- (9CI) (CA INDEX NAME)

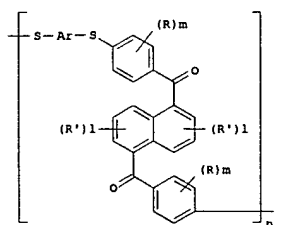


IT 343944-22-9 GDP, sulfilimine derivs.
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and properties of polysulfilimine)
 RN 343944-22-9 CAPLUS
 CN Poly[thio-1,4-phenylenethio-1,4-phenylenethio-1,4-phenylenecarbonyl (2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2001:704715 CAPLUS
 DOCUMENT NUMBER: 135:257616
 TITLE: Polythioether-polyketones with good heat resistance and mechanical properties and their preparation
 INVENTOR(S): Takada, Toshikazu; Kihara, Nobuhiro; Matsumura, Sumiko; Kawasaki, Shinichi; Yamada, Mitsuaki; Nakakura, Masahiro; Sakai, Shiro
 PATENT ASSIGNEE(S): Osaka Gas Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 9 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001261635	A2	20010926	JP 2000-70831	20000314
PRIORITY APPLN. INFO.:			JP 2000-70831	20000314

GI



AB Polymers 1 [Ar = (un)substituted arylene; R = C1-6 alkyl, acylamino, CN, alkylcarbonyloxy, arylcarbonyloxy, alkoxy, aralkyl; R' = C1-6 alkyl; n = 1-20,000; m = 0-4; l = 0-3] are prepared. Thus, 1,5-bis(4-chlorobenzoyl)-2,6-dimethylnaphthalene was heated with bis(4-mercaptophenyl) sulfide in the presence of K2CO3 in NMP to give a polymer showing Tg 212° and 5% weight loss temperature 436°.

IT 343944-21-8P 343944-22-9P 358981-49-4P 362525-95-9P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of polythioether-polyketones with good heat resistance and mech. properties)
 RN 343944-21-8 CAPLUS
 CN Poly[thio-1,4-phenylenesulfonyl-1,4-phenylenethio-1,4-phenylenecarbonyl (2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene]

L4 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
RN 343944-22-9 CAPLUS
CN Poly[thio-1,4-phenylenethio-1,4-phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
RN 358981-49-4 CAPLUS
CN Poly[thio[1,1'-biphenyl]-4,4'-diylthio-1,4-phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
RN 362525-95-9 CAPLUS
CN Poly[thio-1,4-phenylene(1-methylethylidene)-1,4-phenylenethio-1,4-phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

L4 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
RN 343944-22-9 CAPLUS
CN Poly[thio-1,4-phenylenethio-1,4-phenylenethio-1,4-phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
RN 358981-49-4 CAPLUS
CN Poly[thio[1,1'-biphenyl]-4,4'-diylthio-1,4-phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:501386 CAPLUS
DOCUMENT NUMBER: 135:227333
TITLE: Synthesis of all aromatic poly(thioether-ketone)s, sulfur-containing high performance polymers with high solubility

AUTHOR(S): Toshikazu
CORPORATE SOURCE: Department of Applied Chemistry, Graduate School of Engineering, Osaka Prefecture University, Sakai, 599-8531, Japan

SOURCE: High Performance Polymers (2001), 13(2), S293-S304
CODEN: HPPROX; ISSN: 0954-0083

PUBLISHER: Institute of Physics Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Novel aromatic poly(thioether-ketone)s (PTEKs) bearing the 2,6-dimethyl-1,5-naphthylene unit were synthesized by the polycondensation of aromatic dihaloketones and aromatic dithiols in the presence of K₂CO₃. High mol. weight (Mn .apprx. 65 000, Mw .apprx. 350 000) PTEKs were obtained in

quant. yields. The mol. weight and yield of PTEK obtained from dichloroketone and dithiol were much higher than those of the corresponding poly(ether-ketone) obtained from dichloroketone and biphenol. The use of the fluoroketone as a monomer did not increase the Mn of PTEK. The effect of reaction conditions on the yield and the mol. weight of PTEKs was investigated. The phase-transfer-catalyzed polycondensation and the polycondensation using masked dithiol and dichloroketone were also investigated. The PTEKs prepared have high solubility in ordinary organic solvents. Flexible, transparent, and strong cast films

were prepared. The PTEKs had high glass transition temps. (PTEK-1, 245°C and PTEK-2, 215°C) and 5% weight loss temps. (PTEK-1, 435°C and PTEK-2, 436°C).

IT 343944-21-8P 343944-22-9DP, benzophenone-terminated
343944-22-9P 358981-49-4P

RL: PEP (Physical, engineering or chemical process); PRP (Properties);

SPN (Synthetic preparation); PREP (Preparation); PROC (Process) (synthesis and properties of soluble aromatic sulfur- and naphthalene group-containing poly(thioether-ketone)s)

RN 343944-21-8 CAPLUS
CN Poly[thio-1,4-phenylenesulfonyl-1,4-phenylenethio-1,4-

phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
RN 343944-22-9 CAPLUS
CN Poly[thio-1,4-phenylenethio-1,4-phenylenethio-1,4-phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX

L4 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:220958 CAPLUS
DOCUMENT NUMBER: 135:33703
TITLE: Synthesis and properties of novel aromatic poly(thioether-ketone)s as sulfur-containing high-performance polymers

AUTHOR(S): Toshikazu
CORPORATE SOURCE: Department of Applied Chemistry Graduate School of Engineering, Osaka Prefecture University, Sakai-shi Osaka, 599-8531, Japan

SOURCE: Macromolecules (2001), 34(9), 2848-2853
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal
LANGUAGE: English
AB Aromatic poly(thioether-ketone)s (PTEKs) bearing 2,6-dimethyl-1,5-naphthylene

units were synthesized by the polycondensation of 1,5-bis(4-halobenzoyl)-2,6-dimethylnaphthalenes with aromatic dithiols in the presence of K₂CO₃. PTEKs with mol. weight (Mn .apprx. 65,000, Mw .apprx. 350,000) were obtained

in quant. yields. The mol. wts. and yields of PTEKs obtained from aromatic dichloroketones and aromatic dithiols were much higher than those of the corresponding poly(ether-ketone)s obtained from aromatic dichloroketones and bisphenols and were nearly the same as those of PTEKs obtained from aromatic difluoroketones and aromatic dithiols. The effect of reaction conditions on

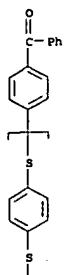
the yield and mol. weight of PTEKs was investigated. The PTEKs had high solubility in ordinary organic solvents. Flexible, transparent, and strong films were cast from CHCl₃ solution. The PTEKs had high glass transition temps. (245 and 215°) and 5% weight loss temps. (435 and 436°).

IT 343944-23-0P
RL: PEP (Physical, engineering or chemical process); PRP (Properties);

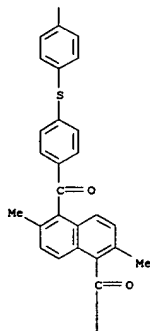
SPN (Synthetic preparation); PREP (Preparation); PROC (Process) (preparation and chemical/thermal stability of)

RN 343944-23-0 CAPLUS
CN Poly[thio-1,4-phenylenethio-1,4-phenylenethio-1,4-phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene], α-(4-benzoylphenyl)-ω-chloro- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

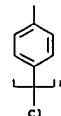


ACCESSION NUMBER: 1998:498329 CAPLUS
 DOCUMENT NUMBER: 129:148830
 TITLE: Preparation of 5-arylnaphthalene-2-sulfonamides and related compounds as cyclooxygenase inhibitors.
 INVENTOR(S): Rotstein, David Mark; Sjogren, Eric Brian
 PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Swiss.
 SOURCE: Ger. Offen., 32 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19803003	A1	19980730	DE 1998-19803003	19980127
IT 1298159	B1	19991220	IT 1998-MI90	19980120
ZA 9800495	A	19980708	ZA 1998-495	19980121
CA 2278687	AA	19980730	CA 1998-2278687	19980121
CA 2278687	C	20040330		
WO 9832732	A1	19980730	WO 1998-EP306	19980121
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RM: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9860956	A1	19980818	AU 1998-60956	19980121
AU 721407	B2	20000706		
EP 966437	A1	19991229	EP 1998-905325	19980121
EP 966437	B1	20020612		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9807520	A	20000321	BR 1998-7520	19980121
JP 2000513735	T2	20001017	JP 1998-531568	19980121
JP 3607706	B2	20050105		
AT 219051	E	20020615	AT 1998-905325	19980121
RU 2188192	C2	20020827	RU 1999-118507	19980121
PT 966437	T	20021129	PT 1998-905325	19980121
ES 2178162	T3	20021216	ES 1998-905325	19980121
FR 2758818	A1	19980731	FR 1998-779	19980126
FR 2758818	B1	19990903		
US 5962531	A	19991005	US 1998-13328	19980126
TW 520355	B	20030211	TW 1998-87101125	19980126
GB 2321457	A1	19980729	GB 1998-1711	19980127
GB 2321457	B2	20010228		
ES 2135351	A1	19991016	ES 1998-141	19980127
ES 2135351	B1	20000516		
US 6150397	A	20001121	US 1999-337695	19990621
NO 9903633	A	19990927	NO 1999-3633	19990727
NO 313136	B1	20020819		
PRIORITY APPLN. INFO.:			US 1997-36466P	P 19970128
			WO 1998-EP306	W 19980121
			US 1998-13328	A3 19980126

OTHER SOURCE(S): MARPAT 129:148830

PAGE 3-A



IT 343944-21-8P 343944-22-9P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and thermal properties of aromatic polyketones)
 RN 343944-21-8 CAPLUS
 CN Poly[thio-1,4-phenylenesulfonyl-1,4-phenylenethio-1,4-phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

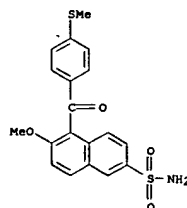
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

RN 343944-22-9 CAPLUS
 CN Poly[thio-1,4-phenylenethio-1,4-phenylenecarbonyl(2,6-dimethyl-1,5-naphthalenediyl)carbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
 REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

GI
 AB Title comps. [I: A = bond, CH2, CH(OH), CO, O, S, SO, SO2, imino, etc.;
 Z
 = (substituted) Ph, pyridinyl, furyl, thienyl, cycloalkyl; R1 = H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, cycloalkylalkyl, hydroxyalkoxy, alkylthio, OH, halo, cyano, CO2H, etc.; R2 = H, alkyl, alkoxy, halo, NO2, amino; R3 = SO2R12, SO2NR13R14; R12 = alkyl, hydroxyalkyl, alkoxyalkyl, carboxyalkyl, alkoxyalkylalkyl; R13 = H, alkyl, acyl; R14 = H, alkyl, haloalkyl, cycloalkyl, cycloalkylalkyl, alkenyl, hydroxyalkyl, amino, aryl, (hetero)aralkyl, etc.; were prepared. Thus, 2-methoxynaphthalene, 4-fluorobenzoyl chloride, and AlCl3 were stirred 3 h in CH2Cl2 to give
 971
 1-(4-fluorobenzoyl)-2-methoxynaphthalene. This was chlorosulfonated and amidated to give 5-(4-chlorosulfonyl)-6-methoxy-2-naphthalenesulfonamide. The latter inhibited cyclooxygenase II with IC50 = 0.51 μM.
 IT 210822-49-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 5-arylnaphthalene-2-sulfonamides and related comps.)
 as
 cyclooxygenase inhibitors)
 RN 210822-49-4 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-methoxy-5-[4-(methylthio)benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 1997:681919 CAPLUS
DOCUMENT NUMBER: 127:332454
TITLE: Resin compositions for use in stereolithographic modeling and method for making the models
INVENTOR(S): Okawa, Kazuo; Chikawa, Satoyuki
PATENT ASSIGNEE(S): Asahi Denka Kogyo K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKKOAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09268205	A2	19971014	JP 1996-99536	19960329
PRIORITY APPLN. INFO.:			JP 1996-99536	19960329

OTHER SOURCE(S): MARPAT 127:332454

AB The comps. giving models with low mold shrinkage while requiring no post treatment are obtained from (A) cationic polymerizable compds., (B) radiation-sensitive cationic polymerization initiators, and optionally,

(C) radical-polymerizable monomers, (D) radical initiators, and (E) fillers where the B-type initiators are selected from arylsulfonium salts [R1R2SXSCOR3]·A- (R1,2,3 = Ph groups optionally substituted with halogen, hydrocarbyl and alkoxy groups; X = p-phenylene; A = counter anions based on halides of As, B, P or Sb) for enhancing cationic curability. The models are manufactured by irradiating with energy beams, e.g., laser beams, as usual. Thus, a title composition was obtained from (A) 3,4-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate 75 and 1,4-butanediol diglycidyl ether 25 and (B) 4-[(4-benzoylphenylthio)phenyl]diphenylsulfonium hexafluoroantimonate 6 parts.

IT 197796-44-4, 4-[(4-(1-naphthyl)phenylthio)phenyl]diphenylsulfonium hexafluoroantimonate
RL: CAT (Catalyst use); USES (Uses)
(cationic polymerization initiators; resin compns. for use in stereolithographic modeling and method for making models)

RN 197796-44-4 CAPLUS
CN Sulfonium, [4-[(4-(1-naphthalenylcarbonyl)phenyl)thio]phenyl]diphenyl-, (OC-6-11)-hexafluoroantimonate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 197796-43-3
CHF C35 H25 O 52

L4 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2006 ACS ON STN

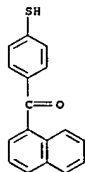
ACCESSION NUMBER: 1996:581737 CAPLUS
DOCUMENT NUMBER: 125:312218
TITLE: Triplet state and photolysis of S-phenyl 1-thionaphthoate
AUTHOR(S): Yang, Guoqiang; Morlet-Savary, Fabrice; Su, Jingjing; Dai, Guangsong; Wu, Shikang; Fouassier, Jean-Pierre
CORPORATE SOURCE: Institute Photographie Chimie, Academia Sinica, Beijing, 100101, Peop. Rep. China
SOURCE: Journal of Photochemistry and Photobiology, A: Chemistry (1996), 99(1), 45-50
CODEN: JPPCEJ; ISSN: 1010-6030
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Energy transfer between S-Ph 1-thionaphthoate (1-SPTN) and several triplet-state energy donors and acceptors were studied by transient absorption spectra. The results indicate that the energy transfer can occur efficiently either from energy donors to 1-SPTN or from 1-SPTN to energy acceptors. The energy transfer rate constant of xanthone to 1-SPTN

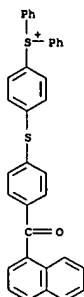
is $1.4 \times 10^{10} \text{ s}^{-1} \text{ mol}^{-1} \text{ dm}^3$. This means that the energy transfer process is diffusion controlled. The triplet-state energy of 1-SPTN is about 252 kJ mol⁻¹, estimated from the energy transfer processes and the phosphorescence emission. Photolysis of 1-SPTN results in two main products: diphenyldisulfide and 1,1'-binaphthyl. The photolysis proceeds via the triplet state mainly, as proved by external magnetic field effect.

IT 183174-36-9
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative) (photolysis and triplet energy transfer of S-phenyl-1-thionaphthoate studied by transient absorption spectra)

RN 183174-36-9 CAPLUS
CN Methanone, (4-mercaptophenyl)-1-naphthalenyl- (9CI) (CA INDEX NAME)

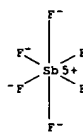


L4 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



CM 2

CRN 17111-95-4
CHF F6 Sb
CCI CCS



L4 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 1993:102689 CAPLUS
DOCUMENT NUMBER: 118:102689
TITLE: New bis(naphthalic anhydrides) and polyheteroarylenes on their base
AUTHOR(S): Rusanov, A. L.; Bulycheva, E. G.
CORPORATE SOURCE: Inst. Org.-Elem. Compd., Moscow, Russia
SOURCE: Polyimides Other High-Temp. Polym., Proc. Eur. Tech. Symp., 2nd (1991), 123-32. Editor(s): Abadie, Marc J.

M.; Sillion, Bernard. Elsevier: Amsterdam, Neth.
CODEN: 57QVAJ
Conference
English

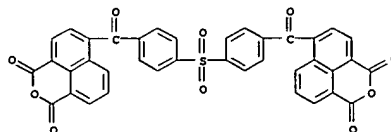
DOCUMENT TYPE: Conference
LANGUAGE: English
AB New bis(naphthalic anhydrides) were obtained by the interaction of acenaphthene with aromatic dicarboxylic acid dichlorides using the Friedel-Crafts reaction, oxidation of the bis-acenaphthyls thus obtained, and dehydration of the bis(naphthalic acids) formed. The bis(naphthalic anhydrides) thus obtained were used for the preparation of polynaphthylimides and polynaphthylenebenzimidazoles which were soluble in strong acids and phenolic solvents. All polymers were obtained under conditions of high-temperature polycondensation in m-cresol solns. using BzOH as catalyst. All the polymers displayed high softening and decomposition temps.

Strong films were obtained from the polynaphthylenebenzimidazoles.

IT 107503-34-4P 146167-94-4P 146191-65-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and characterization of)
RN 107503-34-4 CAPLUS
CN 1H, 3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis-, polymer with 4,4'-oxybis[1,2-benzenediamine] (9CI) (CA INDEX NAME)

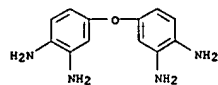
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CRN 107503-33-3
CHF C38 H18 O10 S



CM 2

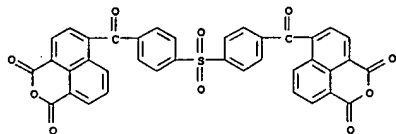
CRN 2676-59-7
CHF C12 H14 N4 O



RN 146167-94-4 CAPLUS
CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis-, polymer with 4,4'-oxybis[benzenamine] (9CI) (CA INDEX NAME)

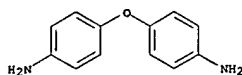
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CRN 107503-33-3
CMF C38 H18 O10 S

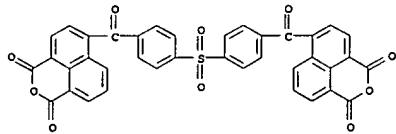


CM 2

CRN 101-80-4
CMF C12 H12 N2 O

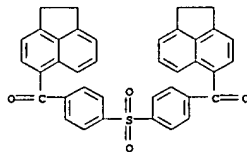


RN 146191-65-3 CAPLUS
CN Poly[(1,3-dioxo-1H-benz[de]isoquinoline-6,2(3H)-diyl)-1,4-phenyleneoxy-1,4-phenylene-1,3-dioxo-1H-benz[de]isoquinoline-2,6(3H)-diyl]carbonyl-1,4-phenylenesulfonyl-1,4-phenylenecarbonyl (9CI) (CA INDEX NAME)

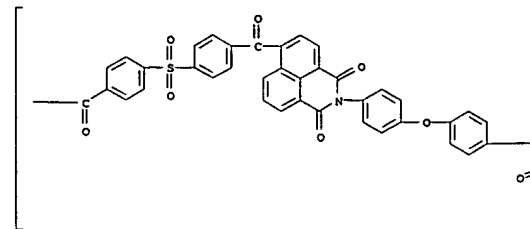


IT 107508-64-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

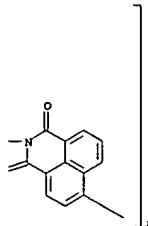
RN 107508-64-5 CAPLUS
CN Methanone, (sulfonyldi-4,1-phenylene)bis[(1,2-dihydro-5-acenaphthylenyl)- (9CI) (CA INDEX NAME)



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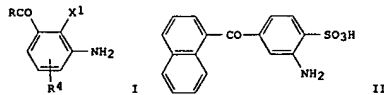


IT 107503-33-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and copolymn. of)
RN 107503-33-3 CAPLUS
CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:235248 CAPLUS
DOCUMENT NUMBER: 116:235248
TITLE: Preparation of benzoylsulfanilic acids
INVENTOR(S): Lamm, Gunther; Teich, Friedhelm
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

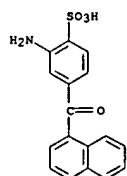
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 469399	A1	19920205	EP 1991-112002	19910718
EP 469399	B1	19941214		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
DE 4024120	A1	19920206	DE 1990-4024120	19900730
ES 2066285	T3	19950301	ES 1991-112002	19910718
US 5153356	A	19921006	US 1991-733816	19910722
JP 04234351	A2	19920824	JP 1991-184514	19910724
PRIORITY APPLN. INFO.:				A 19900730

OTHER SOURCE(S): MARPAT 116:235248
GI

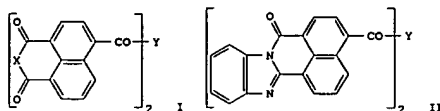


AB Title compds. [I; R = (substituted) Ph, naphthyl, LZR5; R4 = H, Cl; L = bond, alkylene, OCH2; R5 = I in which R = bond; X1 = H, SO2OH; 2 = 1,4-phenylenediyl] were prepared as, e.g., dye intermediates. Thus, naphthalene was acylated with 3-(O2N)C6H4COCl and the reduced product was sulfonated to give title compound II.

IT 141311-54-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as dye intermediate)
RN 141311-54-8 CAPLUS
CN Benzenesulfonic acid, 2-amino-4-(1-naphthalenylcarbonyl)- (9CI) (CA INDEX NAME)



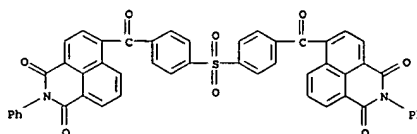
ACCESSION NUMBER: 1991:679906 CAPLUS
 DOCUMENT NUMBER: 115:279906
 TITLE: Bis(1,8-naphthylimides) and bis(1',8'-naphthoylene-1,2-benzimidazoles) formed from the new bis(naphthalic anhydrides)
 AUTHOR(S): Rusanov, A. L.; Bulycheva, E. G.; Berlin, A. M.; Adyrkhaeva, F. I.
 CORPORATE SOURCE: Inst. Elementoorg. Soedin. im. Nesmeyanova, Moscow, 117813, USSR
 SOURCE: Khimiya Geterotatsiklicheskikh Soedinenii (1991), (5), 649-52
 CODEN: KGSSAQ; ISSN: 0453-8234
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 115:279906
 GI



AB The reaction of bis(naphthalic anhydrides) I [X = O; Y = p-, m-C6H4, C6H4OC6H4, C6H4COC6H4, C6H4SO2C6H4, C6H4C(CF3)2 C6H4] with aniline or o-H2NCH6H4NH2 in the presence of PhCO2H as solvent and catalyst gave the title compds. I (X = NPh) and II.

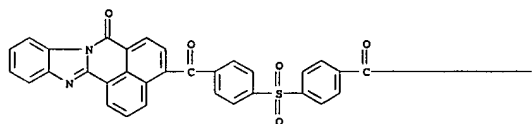
IT 137501-19-0P 137501-24-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 137501-19-0 CAPLUS
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis- (9CI) (CA INDEX NAME)

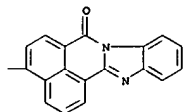


RN 137501-24-7 CAPLUS
 CN 7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one, 4,4'-[sulfonylbis(4,1-phenylenecarbonyl)]bis- (9CI) (CA INDEX NAME)

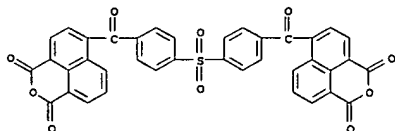
PAGE 1-A



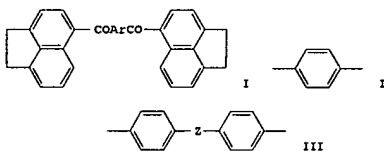
PAGE 1-B



IT 107503-33-3
 RL: RCT (Reactant); RACT (Reactant or reagent) (recyclization of, with aniline or phenylenediamine, benzoic acid catalyzed)
 RN 107503-33-3 CAPLUS
 CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis- (9CI) (CA INDEX NAME)



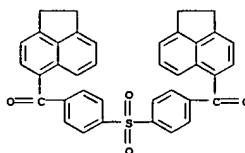
ACCESSION NUMBER: 1989:632252 CAPLUS
 DOCUMENT NUMBER: 111:232252
 TITLE: Synthesis and study of aroylenebisacenaphthyls
 AUTHOR(S): Korshak, V. V.; Rusanov, A. L.; Berlin, A. M.; Moskvichev, Yu. A.; Mironov, G. S.; Titov, V. I.; Timoshenko, G. N.; Jedlinski, Z.; Pallvoda, A.; et al.
 CORPORATE SOURCE: Inst. Elementoorg. Soedin. im. Nesmeyanova, Moscow, USSR
 SOURCE: Doklady Akademii Nauk Tadzhikskoi SSR (1988), 31(8), 526-8
 CODEN: DANTAL; ISSN: 0002-3469
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI



AB The title compds. I [Ar = e.g. II, III (Z = CO, SO2, C(CF3)2, SiPh2)] were prepared in <98% yield by Friedel-Crafts acylation of acenaphthene with ClCO(Ar)COCl (IV) in tetrachloroethane in the presence of AlCl3, with reagents in the molar ratio, acenaphthene:IV:AlCl3 = 2:1:2.1.

IT 107508-64-5P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 107508-64-5 CAPLUS
 CN Methanone, (sulfonyldi-4,1-phenylene)bis[(1,2-dihydro-5-acenaphthylenyl)- (9CI) (CA INDEX NAME)



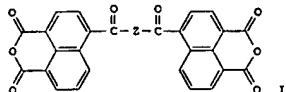
L4 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:611550 CAPLUS
DOCUMENT NUMBER: 109:211550

TITLE: Novel bis(naphthalic anhydrides) and polyheteroarylenes on their basis
AUTHOR(S): Korshak, V. V.; Bulycheva, E. G.; Shifrina, Z. B.; Berlin, A. M.; Shalikiani, M. O.; Butskhrikidze, B. A.; Rusanov, A. L.; Mironov, G. S.; Moskvichev, Yu. A.; et al.

CORPORATE SOURCE: Nesmeyanov Inst. Organoelem. Compd., Moscow, USSR
SOURCE: Acta Polymerica (1988), 39(8), 460-4
CODEN: ACPODY; ISSN: 0323-7648

DOCUMENT TYPE: Journal
LANGUAGE: English
GI



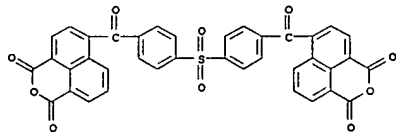
AB Bis(naphthalic anhydrides) I (Z = m-C6H4, p-C6H4, p-C6H4CO-p-C6H4, p-C6H4O-p-C6H4, p-C6H4SO2-p-C6H4, p-C6H4C(CF3)2-p-C6H4) were prepared by oxidation of the corresponding bisacenaphthyls followed by dehydration of the resultant tetracarboxylic acids. Ring-closing polymerization of I with tetraaminodiphenyl ether gave thermally stable poly(naphthylenebenzimidazoles).

IT 117343-59-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and characterization of)

RN 117343-59-6 CAPLUS
CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis-, polymer with ar,ar'-oxybis[1,2-benzenediamine] (9CI) (CA INDEX NAME)

CM 1

CRN 107503-33-3
CMF C38 H18 O10 S



CM 2

L4 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

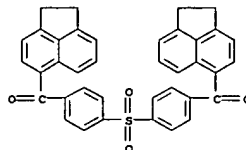
L4 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 77194-19-5
CMF C12 H14 N4 O
CCI IDS

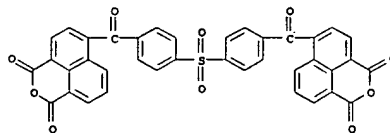


1/2 (D1-O-D1)

IT 107508-64-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
RN 107508-64-5 CAPLUS
CN Methanone, (sulfonyldi-4,1-phenylene)bis[(1,2-dihydro-5-acenaphthylenyl)- (9CI) (CA INDEX NAME)]



IT 107503-33-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and polymerization of, with tetraaminodiphenyl ether)
RN 107503-33-3 CAPLUS
CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

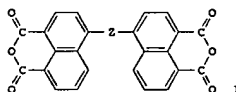
ACCESSION NUMBER: 1987:637477 CAPLUS
DOCUMENT NUMBER: 107:237477

TITLE: Bis(naphthalic)dianhydrides useful for preparing poly(naphthylene-benzimidazoles)
AUTHOR(S): Korshak, V. V.; Rusanov, A. L.; Berlin, A. M.; Adykhbaeva, F. I.; Mironov, G. S.; Moskvichev, Yu. A.; et al.

INVENTOR(S): Timoshenko, G. N.; Titov, V. I.; Shalikiani, M. O.; et al.
PATENT ASSIGNEE(S): Institute of Heteroorganic Compounds, Academy of Sciences, USSR, USSR; Yaroslavl Polytechnic Institute
SOURCE: Brit., 22 pp.
CODEN: BROXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

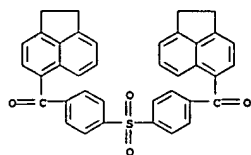
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2176778	A1	19870107	GB 1985-16014	19850625
PRIORITY APPLN. INFO.:			GB 1985-16014	19850625

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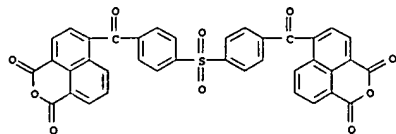


AB Bis(naphthalic) dianhydrides I (Z = CO2ICO, C(CCl2); Z1 = divalent aromatic group) are prepared by reaction of dicarboxylic acid dichlorides with acenaphthene (II) and subsequent oxidation, and are useful for preparation of heat- and fire-resistant poly(naphthylenebenzimidazoles). A solution of 45.6 g II in 300 mL C2H2Cl4 was added in 15 min to a mixture of 30.0 g terephthaloyl chloride and 43.3 g anhydrous AlCl3 in 100 mL C2H2Cl4 at 0-5°, heated to 60°, cooled, and crystallized to give 1,4-bis(acenaphthoyl-4)benzene (III). III was oxidized with Na2Cr2O7.2H2O to give 1,4-bis(1,8-dicarboxynaphthoyl-4)benzene dianhydride (IV).

IV (1.0529 g) and 0.4606 g 3,3',4,4'-tetraaminodiphenyl ether were polymerized in PhOH at 160-170° for 10 h, giving a polymer with softening temperature 460°, decomposition temperature 490°, and reduced viscosity 1 dL/g.
IT 107508-64-5P
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
RN 107508-64-5 CAPLUS
CN Methanone, (sulfonyldi-4,1-phenylene)bis[(1,2-dihydro-5-acenaphthylenyl)- (9CI) (CA INDEX NAME)]



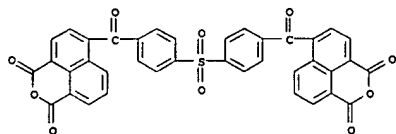
IT 107503-33-3P
 RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and polymerization of)
 RN 107503-33-3 CAPLUS
 CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis- (9CI) (CA INDEX NAME)



IT 107503-34-4P
 RL: PREP (Preparation)
 (preparation of, compression-moldable, heat- and fire-resistant)
 RN 107503-34-4 CAPLUS
 CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis-, polymer with 4,4'-oxybis[1,2-benzenediamine] (9CI) (CA INDEX NAME)

CM 1

CRN 107503-33-3
 CMF C38 H18 O10 S

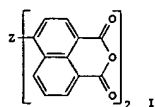


CM 2

ACCESSION NUMBER: 1987:138916 CAPLUS
 DOCUMENT NUMBER: 106:138916
 TITLE: Bisnaphthalic dianhydrides for use in polybenzimidazoles and their preparation
 INVENTOR(S): Korshak, V. V.; Rusanov, A. L.; Berlin, A. M.; Adrychayeva, F. I.; Mironov, G. S.; Moskvichev, Yu. A.; Timoshenko, G. N.; Titov, V. I.; Salikyan, M. O.; et al.
 PATENT ASSIGNEE(S): Institute of Heteroorganic Compounds, Academy of Sciences, USSR, USSR; Yaroslavl Polytechnic Institute
 SOURCE: Ger. Offen., 17 pp.
 CODEN: GWXKBM
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

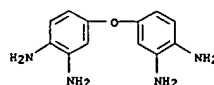
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3526155	A1	19870122	DE 1985-3526155	19850722
CH 666032	A	19880630	CH 1985-2642	19850621
IN 164541	A	19890401	IN 1985-DE496	19850625
JP 62010079	A2	19870119	JP 1985-145918	19850704
FR 2584407	A1	19870109	FR 1985-10427	19850708
FR 2584407	B1	19881118		
IN 169276	A	19910921	IN 1988-DE172	19880308
IN 169278	A	19910921	IN 1988-DE252	19880329
PRIORITY APPLN. INFO.:			SU 1980-2923871	19800508
			SU 1980-2923871	19800508
			IN 1985-164541	A 19850625
			IN 1985-DE496	A 19850625
			DE 1985-3526155	19850722

GI



AB The dianhydrides I [Z = C12C:C, Ar(CO)2 [Ar = m- or p-C6H4, C6H4 C6H4, O(C6H4-p)2, CO(C6H4-p)2, SO2(C6H4-p)2, (CF3)2C(C6H4-p)2]] are useful in the manufacture of polybenzimidazoles with high softening points and fire resistance. Adding 120 g Na2Cr2O7 gradually to 21.9 g 5,5-terephthaloyldiacenaphthene (prepared in 88% yield by AlCl3-catalyzed condensation of terephthaloyl chloride with acenaphthene) in 500 mL AcOH and 20 mL Ac2O and heating at 90-110° gave 21 g

CRN 2676-59-7
 CMF C12 H14 N4 O

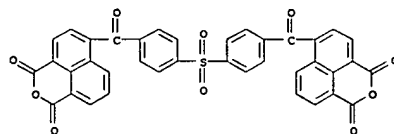


L4 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 4,4'-terephthaloyldianaphthalic anhydride (II). Polymg. 2 mmol II with 2 mmol 4,4'-oxydi-o-phenylenediamine in 10 mL PhOH at 160-170° for 10 h gave a polymer with decompn. temp. 490°, softening temp. 460°, and reduced viscosity 1 dL/g.

IT 107503-34-4P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (heat-resistant, manufacture of)
 RN 107503-34-4 CAPLUS
 CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis-, polymer with 4,4'-oxybis[1,2-benzenediamine] (9CI) (CA INDEX NAME)

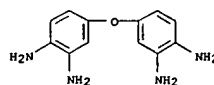
CM 1

CRN 107503-33-3
 CMF C38 H18 O10 S

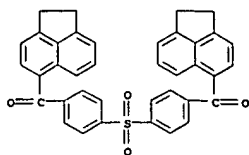


CM 2

CRN 2676-59-7
 CMF C12 H14 N4 O



IT 107508-64-5P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (manufacture and oxidation of)
 RN 107508-64-5 CAPLUS
 CN Methanone, (sulfonyldi-4,1-phenylene)bis[(1,2-dihydro-5-acenaphthyl)enyl]- (9CI) (CA INDEX NAME)



IT 107503-33-3P
 RL: PREP (Preparation)
 (preparation of)
 RN 107503-33-3 CAPLUS
 CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6,6'-[sulfonylbis(4,1-phenylenecarbonyl)]bis- (9CI) (CA INDEX NAME)

